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L7	, 24	pyrochlore and ((bi or bismuth) with (titanium or Ti) with (silicon or si) with (oxide or oxygen or O))	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2005/02/21 11:20
L8	3	(bismuth adj titanium adj silicon adj oxide)	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2005/02/21 11:49
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L10	4	9 same pyrochlore	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2005/02/21 12:08
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L12	1517	(501/134).CCLS.	IBM_TDB US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR .	OFF	2005/02/21 12:17

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L15	11	12 and ((silicon or si) with (bi or bismuth) with (oxygen or oxide or O) with (titanium or ti))	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2005/02/21 12:20
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L19	27163	BIT and dielectric .	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2005/02/21 13:06
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L23	910	(bismuth adj titanate)	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2005/02/21 14:08
L24	34	23 same modified	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF ,	2005/02/21 14:52

L25	6097	"bi.sub.2"	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2005/02/21 14:53
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L36	76	35 and ((bi or bismuth) with (si or silicon) with (o or oxide or oxygen) with (ti or titanium))	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2005/02/21 16:05

L37	52 36 and (dielectric or ferroelectric)	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2005/02/21 16:05
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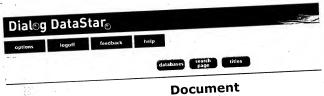
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Effect of silicon on the microstructure of pulsed laser ablated ferroelectric PbTiO/sub 3/ thin

Author(s)

Banerjee-R; Purandare-S-C; Palkar-V-R; Pinto-R.

Dept of Condensed Matter Phys & Mater Sci, Tata Inst of Fundamental Res, Bombay, India. Author affiliation

Journal-of-Physics-D (Applied Physics)(UK), vol.34, no.7, p.1037-43, 7 April 2001. , Published: TOP Publishing.

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J Journal Paper.

Treatment codes P Practical; X Experimental.

Abstract

Ferroelectric thin films of lead titanate (PDTIO/sub 3/) have been deposited on silicon substrates using pulsed laser ablation. The targets from which the films were deposited consisted of lead titanate added with different amounts of silicon, the motivation being to reduce the formation of the non-ferroelectric interfacial layer of the pyrochlore phase, which is detrimental to the properties of the film. Using transmission electron microscopy, a detailed microstructural characterization of the films has been carried out. Films deposited from targets, added with ~2 mol/s Si, exhibit an interconnected network of perovskite grains encompassing pockets of an amorphous Si-O rich phase. The grains of the perovskite phase are equiaxial. In addition, fine grains of the pyrochlore phase were observed within the pockets of the amorphous phase. Increasing the level of Si to ~10 mol/s in the lead titanate target results in films which exhibit needle-like grains of the perovskite phase dispersed in an amorphous Si-O rich matrix. These needle-like grains are no longer interconnected. The effect of silicon on the phase evolution in these films and the consequent effect on the ferroelectric properties have been discussed in this pager, (10 refs).

Descriptors

crystal-microstructure; ferroelectric-materials; ferroelectric-thin-films; lead-compounds; pulsed-laser-deposition; silicon; substrates.

Keywords

microstructure; pulsed laser ablated ferroelectric PbTiO3 films; **Si** substrates; non ferroelectric interfacial layer; **pyrochlore** phase; transmission electron microscopy; perovskite grains; needle like grains: PbTiO3: **Si**.

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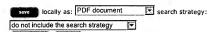
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